## Amendments to Claims

## We claim:

- 1. (Original) Film compositions that comprise, as a conductive phase, pyrochlore-related compounds of the general formula  $M_{2-x}Cu_xRu_2O_{6+\delta}$ , wherein M is a rare earth metal selected from the rare earth metals of atomic number 60-71 inclusive.
- 2. (Original) Compositions according to claim 1, wherein X = 0.2 0.4 and  $\delta$  = 0-1.
- 3. (Original) Compositions according to claim 1, comprising a dielectric phase.
- 4. (Original) Compositions according to claim 3, wherein the dielectric phase consists of or comprises, as a main component, a glass phase.
- 5. (Original) Compositions according to claim 4, wherein the glass phase comprises by mole% 40-60% SiO<sub>2</sub>, 1-20% B<sub>2</sub>O<sub>3</sub>, 1-15% BaO, 1-6% SrO, 1-15% CaO, 0.5-3% CuO, 0.5-20% ZnO, 0.25-7% M<sub>2</sub>O<sub>3</sub>, 0.25-4% M'<sub>2</sub>O , wherein M' is Li, Na, K or mixture thereof, and M is a rare earth element of atomic number 57 to 71 inclusive, or mixture thereof; and 0-3% of a metal fluoride in which the metal is selected from the group consisting of alkali and alkaline earth metals.
- 6. (Original) Compositions according to claim 4, wherein the glass phase comprises by mole% 40 to 65%  $SiO_2$ , 10 to 20%  $Bi_2O_3$ , 0.1 to 3%  $Al_2O_3$ , and glass modifiers in total amount of 15 to 25%, wherein said glass modifiers comprise 1 to 23% ZnO, 0.1 to 5% CuO, 0.1 to 5% CaO and 0.1 to 2% MgO.
- 7. (Original) Compositions according to claim 4, wherein the glass phase comprises a blend of two glasses.
- 8. (Original) Compositions according to claim 7, wherein

- a) a first glass comprises by mole% 40-65% SiO<sub>2</sub>, 1-15% B<sub>2</sub>O<sub>3</sub>, 12-27% BaO, 5-10% SrO, 5-15% CaO, 0-5% MgO, 0-5% Al<sub>2</sub>O<sub>3</sub>, 0-12% alkali metal oxides and 0-3% of a metal fluoride in which the metal is selected from the group consisting of alkali and alkaline earth metals; and
- b) a second glass comprises by mole% glass forming compounds in a total amount of 75 to 85% wherein, said glass forming compounds comprise 40 to 65%  $SiO_2$ , 10 to 20%  $Bi_2O_3$ , 0.1 to 3%  $Al_2O_3$ , and glass modifiers in total amount of 15 to 25%, wherein said glass modifiers comprise 1 to 23% ZnO, 0.1 to 5% CuO, 0.1 to 5% CaO and 0.1 to 2% MgO.
- 9. (Amended) Compositions according to claim 3 or 4, wherein the dielectric phase is selected from  $Al_2O_3$ ,  $SiO_2$ ,  $ZrSiO_4$ ,  $ZrO_2$ , aluminosilicates and mixtures thereof.
- 10. (Original) Compositions according to claim 1, further comprising an organic vehicle.
- 11. (Original) Compositions according to claim 10, wherein the organic vehicle is a solution of resin in a solvent or mixture of solvents.
- 12. (Original) Compositions according to claim 1, further comprising a filler.
- 13. (Original) Compositions according to claim 12, wherein the filler is chosen from the group consisting of  $Al_2O_3$ ,  $SiO_2$ ,  $ZrSiO_4$ ,  $ZrO_2$  and aluminosilicates.
- 14. (Amended) Compositions according to claim 1, comprising
- a) a dispersion of finely divided particles of the pyrochlore related compound corresponding to the formula  $M_{2-x}Cu_xRu_2O_{6+\delta}$ , wherein M is a rare earth metal selected from the rare earth metals of atomic number 60-71 inclusive, X=0.2-0.4,  $\delta=0-1$ ;

- b) glasses according to claims 5, 6, 7, 8, selected from the groups consisting of:
  - (A) a glass phase comprising by mole% 40-60% SiO<sub>2</sub>, 1-20% B<sub>2</sub>O<sub>3</sub>, 1-15% BaO, 1-6% SrO, 1-15% CaO, 0.5-3% CuO, 0.5-20% ZnO, 0.25-7% M<sub>2</sub>O<sub>3</sub>, 0.25-4% M'<sub>2</sub>O, wherein M' is Li, Na, K or mixture thereof, and M is a rare earth element of atomic number 57 to 71 inclusive, or mixture thereof; and 0-3% of a metal fluoride in which the metal is selected from the group consisting of alkali and alkaline earth metals;
  - (B) a glass phase comprising by mole% 40 to 65% SiO<sub>2</sub>, 10 to 20% Bi<sub>2</sub>O<sub>3</sub>, 0.1 to 3% Al<sub>2</sub>O<sub>3</sub>, and glass modifiers in total amount of 15 to 25%, wherein said glass modifiers comprise 1 to 23% ZnO, 0.1 to 5% CuO, 0.1 to 5% CaO and 0.1 to 2% MgO;
  - (C) a glass phase comprising a blend of two glasses;
    (D) a) a first glass comprises by mole% 40-65% SiO<sub>2</sub>,
    1-15% B<sub>2</sub>O<sub>3</sub>, 12-27% BaO, 5-10% SrO, 5-15% CaO, 0-5% MgO,
    0-5% Al<sub>2</sub>O<sub>3</sub>, 0-12% alkali metal oxides and 0-3% of a
    metal fluoride in which the metal is selected from the
    group consisting of alkali and alkaline earth metals;
    and
  - b) a second glass comprises by mole% glass forming compounds in a total amount of 75 to 85% wherein, said glass forming compounds comprise 40 to 65% SiO<sub>2</sub>, 10 to 20% Bi<sub>2</sub>O<sub>3</sub>, 0.1 to 3% Al<sub>2</sub>O<sub>3</sub>, and glass modifiers in total amount of 15 to 25%, wherein said glass modifiers comprise 1 to 23% ZnO, 0.1 to 5% CuO, 0.1 to 5% CaO and 0.1 to 2% MgO; and
  - (E) mixtures thereof; and

- c) dielectrics selected from the group consisting of  $\mathrm{SiO}_2$ ,  $\mathrm{ZrSiO}_4$  and  $\mathrm{Al}_2\mathrm{O}_3$
- 15. (Original) Compositions according to claim 14, wherein the rare earth metal is Neodymium.
- 16. (Original) A composition according claim 4, wherein the glass phase comprises glasses chosen from the group consisting of Cd-free and Pb-free bismuthate glasses, alkaline earth borosilicate glasses, and mixture thereof.
- 17. (Original) A composition according to claim 4, wherein the glass phase is chosen from the group consisting of lead-containing silicate glasses, lead-containing borosilicate glasses and mixtures thereof.
- 18. (Original) Method of preparing pyrochlore-related compounds as defined in claim 1, which comprises firing an admixture of finely divided particles of CuO, RuO<sub>2</sub> and a metal oxide selected from the rare earth metal oxides of atomic number 60 -71 inclusive, at a temperature of at least 800°C, in a non-reducing atmosphere.
- 19. (Original) Method according to claim 18, for preparing compounds having the formula  $Nd_{2-x}Cu_xRu_2O_{6+\delta}$ , which comprises firing in air an admixture of finely divided particles of  $Nd_2O_3$ , CuO and  $RuO_2$  at a temperature of 1000-1200°C.
- 20. (Original) Method of making film compositions according to claim 1, comprising preparing a powdered mixture of
- a) 5-90% by weight of an oxide of the formula  $Cu_xM_{2-x}Ru_2O_{6+\delta}$ , wherein M is a rare earth metal selected from the rare earth metals of atomic number 60-71 inclusive, x is a number in the range of 0.25 to 0.4, and  $\delta$  is a number in the range of 0 to 1; and

b) 95-10% by weight of dielectric materials.

- 21. (Original) Method according to claim 20, further comprising dispersing the powdered mixture in a liquid organic vehicle.
- 22. (Original) Method according to claim 20, wherein the oxide is chosen from the group consisting of  $Nd_{1.70}Cu_{0.30}Ru_2O_{6+\delta}$ ,  $Nd_{1.75}Cu_{0.25}Ru_2O_{6+\delta}$ , and their mixtures wherein  $\delta$  is a number in the range of 1 to 0.
- 23. (Original) Method according to claim 22, wherein the dielectric materials are chosen from the group consisting of glasses, oxides selected from  $ZrSiO_4$ ,  $Al_2O_3$ ,  $SiO_2$ , and mixture thereof.

Cancel claims 24-26.